

Atty Dkt. No. 066243-0236 (141210)

Application No. 10/816,641

**Listing of the Claims:*****This listing of claims will replace all prior versions, and listings of claims in the application:***

1. (Original) An electrophysiology system comprising:
  - one or more probes configured to be positioned inside a heart of a patient, at least one of the one or more probes being configured to sense electrical information pertaining to the heart;
  - a data processing system communicatively coupled to the one or more probes, the data processing system being configured to store the electrical information and position information, the position information pertaining to the position of at least one of the one or more probes inside the heart;
  - a display communicatively coupled to the data processing system and configured to display a three dimensional image of the heart;
  - wherein the electrophysiology system is configured to be coupled to a network and to receive the image over the network.
2. (Original) The electrophysiology system of claim 1, wherein the image is acquired using an internal medical imaging system.
3. (Original) The electrophysiology system of claim 2, wherein the internal medical imaging system is a computed tomography imaging system, a magnetic resonance imaging system, an ultrasound imaging system, a positron emission tomography imaging system, single photon emission computed tomography, and/or optical coherence tomography.
4. (Original) The electrophysiology system of claim 1, wherein the network is a wireless network.
5. (Original) The electrophysiology system of claim 1, wherein the network includes the Internet.

Atty Dkt. No. 066243-0236 (141210)

Application No. 10/816,641

6. (Original) The electrophysiology system of claim 1, wherein an internal medical imaging system is coupled to the network, wherein the image is acquired using the imaging system before positioning the one or more probes inside the heart and stored on a data storage system coupled to the network.
7. (Original) The electrophysiology system of claim 1, wherein the image is stored in a database on the network.
8. (Original) The electrophysiology system of claim 7, wherein a database management system is used to control the organization, storage and retrieval of images in the database.
9. (Original) The electrophysiology system of claim 1, wherein the system is configured to generate a report which comprises the electrical information, the position information, and the image.
10. (Original) A system comprising:
  - an electrophysiology system comprising
    - one or more probes configured to be positioned inside a heart of a patient, at least one of the one or more probes being configured to sense electrical information pertaining to the heart;
    - a processor communicatively coupled to the one or more probes, the processor being used to process the electrical information and position information, the position information pertaining to the position of at least one of the one or more probes positioned inside the heart;
    - a display communicatively coupled to the processor and configured to display an image of the heart;
    - a file server communicatively coupled to the electrophysiology system by way of a network, the file server being configured to store the image of the heart;
  - wherein the image of the heart is obtained by the electrophysiology system from the file server by way of the network.

Atty Dkt. No. 066243-0236 (141210)

Application No. 10/816,641

11. (Original) The system of claim 10, wherein the image is acquired using an internal medical imaging system.
12. (Original) The system of claim 11, wherein the internal medical imaging system is a computed tomography imaging system, a magnetic resonance imaging system, an ultrasound imaging system, a positron emission tomography imaging system, single photon emission computed tomography, and/or optical coherence tomography.
13. (Original) The system of claim 10, wherein the network is a wireless network.
14. (Original) The system of claim 10, wherein an internal medical imaging system is used to acquire the image before the one or more probes is positioned inside the heart, and wherein after the image is acquired it is stored on the file server.
15. (Original) The system of claim 10, wherein the file server comprises a database of images which includes the image of the heart.
16. (Original) The system of claim 10, wherein the system is configured to generate a report which comprises the electrical information, the position information, and the image.
17. (Original) The system of claim 10, wherein the processor is used to process the position information to create a structural map of the heart.
18. (Original) A method comprising:
  - acquiring a three dimensional image of a heart;
  - storing the image in a data storage system on a network;
  - transmitting the image over the network to an electrophysiology system which uses one or more probes positioned inside the heart to sense electrical information related to the heart and/or create a structural map of the heart.
19. (Original) The method of claim 18, wherein the image is acquired using a computed tomography imaging system, a magnetic resonance imaging system, an ultrasound imaging

Atty Dkt. No. 066243-0236 (141210)

Application No. 10/816,641

system, a positron emission tomography imaging system, single photon emission computed tomography, and/or optical coherence tomography.

20. (Original) The method of claim 18, wherein the electrophysiology system is configured to use at least one of the one or more probes to sense electrical information pertaining to the heart.

21. (Original) The method of claim 20, wherein the electrophysiology system stores position information pertaining to the position of at least one of the one or more probes, the position information being used to create the structural map of the heart.

22. (Original) The method of claim 18, wherein the image is acquired in a radiology lab of a hospital using an internal medical imaging system and the electrophysiology system is in an electrophysiology lab of the hospital.

23. (Original) The method of claim 18, wherein the network is a wireless network.

24. (Original) The method of claim 18, wherein the electrophysiology system is configured to generate a report which comprises the image.

25. (Original) An electrophysiology system comprising:  
one or more probes configured to be positioned inside a heart of a patient, at least one of the one or more probes being configured to sense electrical information pertaining to the heart;  
a data processing system communicatively coupled to the one or more probes, the data processing system being configured to store the electrical information and position information, the position information pertaining to the position of at least one of the one or more probes inside the heart;  
a display communicatively coupled to the data processing system and configured to display a three dimensional image of the heart, the three dimensional image being constructed based on a plurality of image slices each of which represents a cross sectional slice of the heart;

Atty Dkt. No. 066243-0236 (141210)

Application No. 10/816,641

wherein the electrophysiology system is configured to be coupled to a network and to receive the three dimensional image over the network; and

wherein the system is configured to generate a report which includes the electrical information, the position information, and the image.